



Loudoun County

VIRGINIA

WHERE TRADITION MEETS INNOVATION

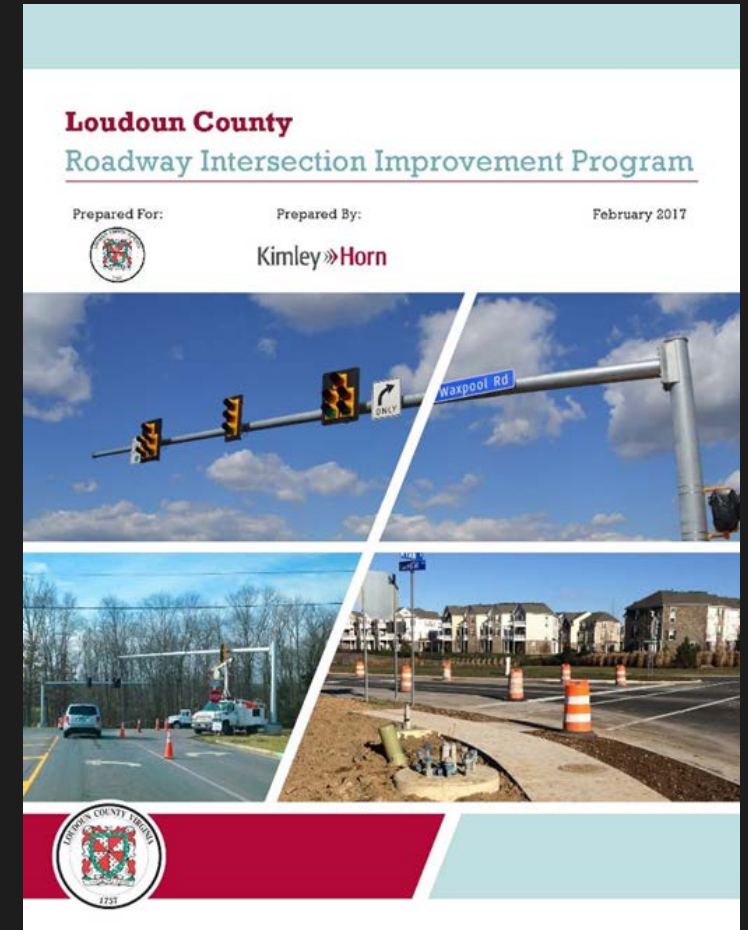
Intersection Improvement Program Overview

Transportation and Land Use Committee Meeting
February 17, 2021

2017 Report

At the [March 23, 2017](#) Business Meeting

- DTCl presented the results of a report entitled: "Loudoun County Roadway Intersection Improvement Program"
- The Board directed staff to expand this study to include an analysis and ranking of signalized intersections

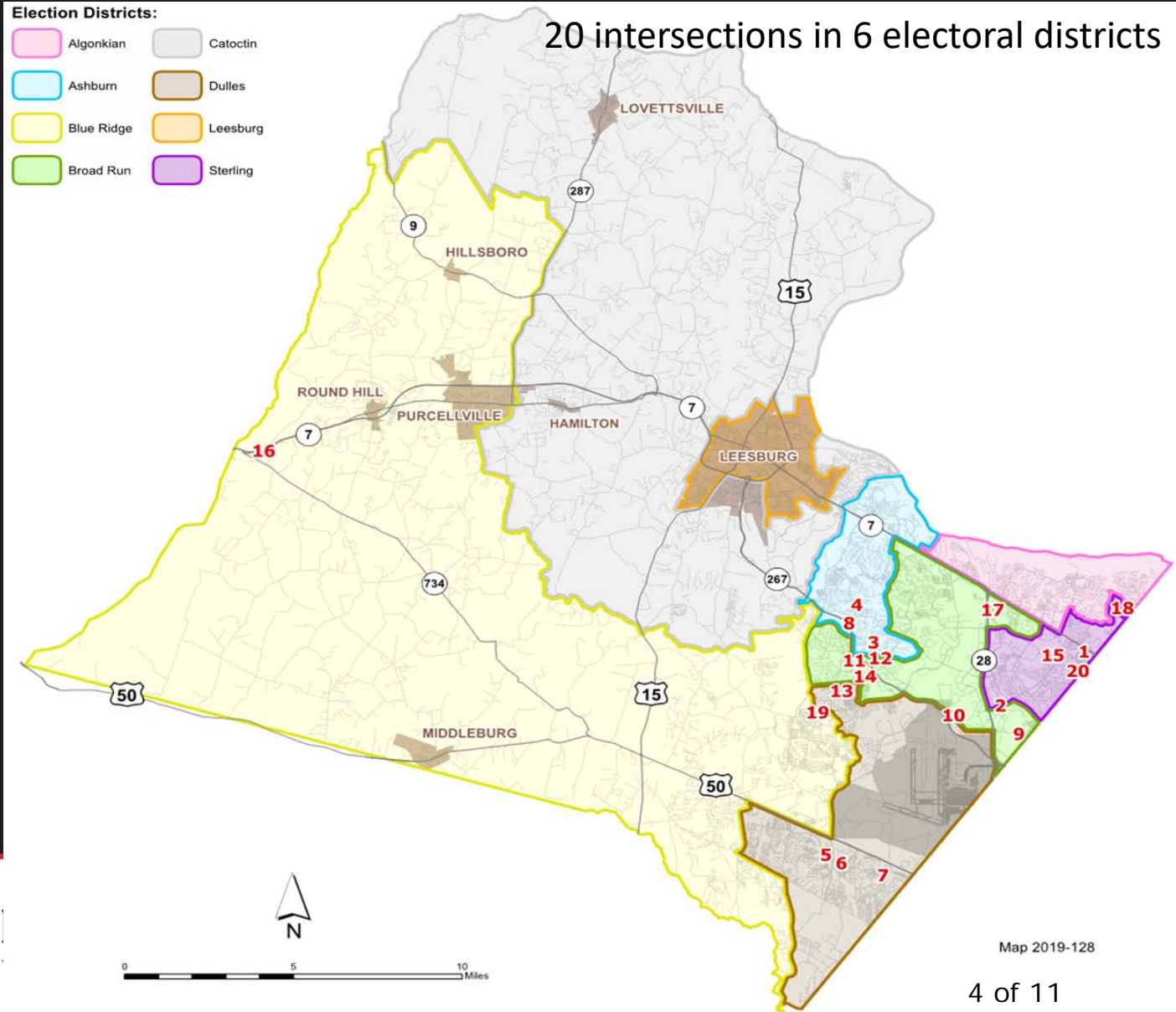


Summary of the 2017 Analysis

Intersection Type	Analyzed Intersections	Rank 5 Identified Intersection	Rank 5 Intersections being Addressed	Rank 5 Intersections to be Addressed
Unsignalized Intersections	544	43	14	29
Signalized Intersections	180*	0*	0*	0*
Roundabouts Intersections	0*	0*	0*	0*
Total	724	43	14	29

* Signalized and roundabout intersections were not evaluated in the 2017 report.

Study Intersections



Intersections:

ID	Location
1	Harry Byrd Highway (Route 7) and Cedar Drive (Route 822)
2	Sterling Boulevard (Route 846) and Glenn Drive (Route 864)
3	Ashburn Road (Route 641) and Faulkner Parkway (Route 643)
4	Claiborne Parkway (Route 901) and Marshfield Drive (Route 1872) / Crossroads Drive (Route 1880)
5	Tall Cedars Parkway (Route 2200) and Nations Street (Route 2657)
6	Tall Cedars Parkway (Route 2200) and Elk Lick Road (Route 621)
7	Tall Cedars Parkway (Route 2200) and Edgewater Street (Route 2237)
8	Claiborne Parkway (Route 901) and Dulles Greenway WB Ramp (Route 267)
9	Old Ox Road (Route 606) and Douglas Court (Route 635)
10	Old Ox Road (Route 606) and Dulles Summit Court (Route 1029)
11	Mooreview Parkway (Route 2298) and Old Ryan Road (Route 772) (N) / Dulles Greenway EB Off-Ramp (Route 267)
12	Waxpool Road (Route 2119) and Ashburn Road (Route 641) / Ryan Corner Place
13	Mooreview Parkway (Route 2298) and Croson Lane (Route 645)
14	Mooreview Parkway (Route 2298) and Wynridge Drive (Route 2394) / Claude Moore Drive (Route 2394)
15	Sterling Boulevard (Route 846) and West Laurel Avenue (Route 1447)
16	Harry Byrd Highway (Route 7) and Clayton Hall Road (Route 760)
17	Atlantic Boulevard (Route 1992) and Century Boulevard (Route 3431) / Majestic Drive
18	Algonkian Parkway (Route 1582) and Hardwood Forest Drive (Route 1671) / Noble Terrace
19	Ryan Road (Route 772) and Cotton Grass Way (Route 2472) / Legacy Park Drive (Route 2551)
20	Sugarland Road (Route 604) and Church Road (Route 625) / East Frederick Drive (Route 1454)

Screening/Evaluation: Prioritizing the identified Rank 5 Intersections

- Main objective to rank the Critical Intersections based on scores for 13 criteria in 5 categories:
 - Pedestrian / Bicycle Impacts
 - Roadway Impacts
 - Safety
 - Signal Warrants
 - Traffic Impacts



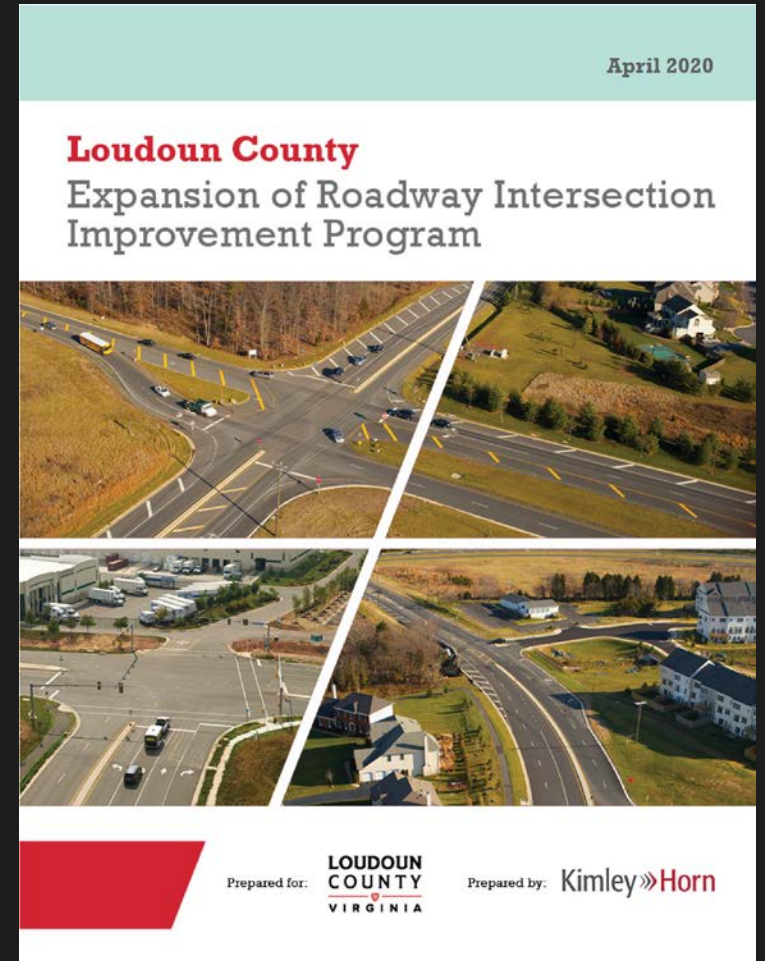
Current Status

- Top 10 intersections:
 - Forwarded the to FY 2022 Capital Improvement Program budget deliberation at the [July, 21 2020](#) Business Meeting
- Intersections 11 & 12 (Waxpool Rd Intersections):
 - Design funded on [November, 7 2019](#)
 - Construction funding forwarded for budget deliberation process
- Intersection 13 (Route 7 & Clayton Hall Rd):
 - Phase 1 improvements to be implemented by VDOT

2020 Expansion Report

At the [June 16, 2020](#) Business Meeting

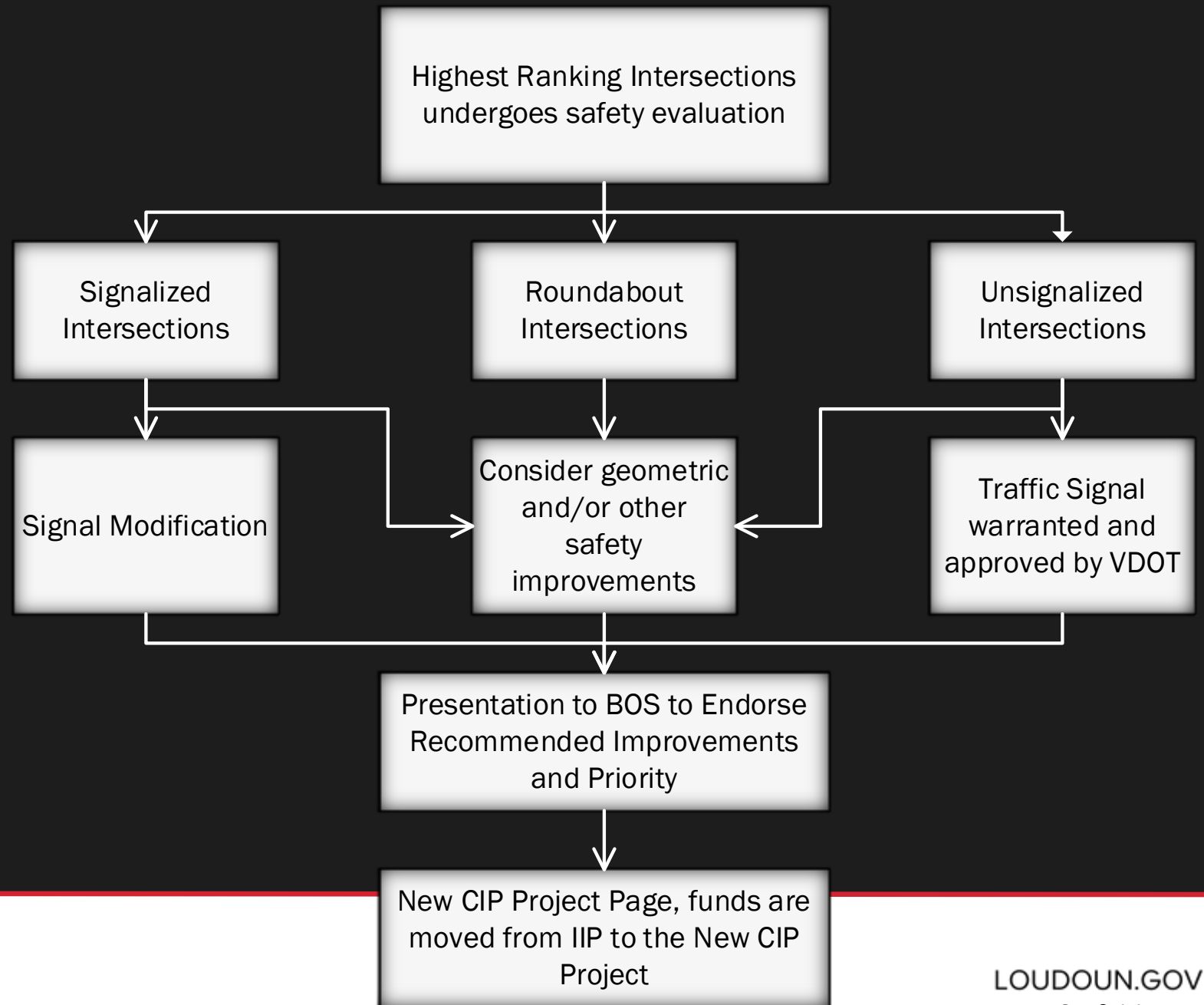
- DTCl presented the results of the report entitled: “Expansion of Roadway Intersection Improvement Program”
- This report includes the analysis and ranking of signalized and roundabout intersections



Summary of the 2020 Analysis

Intersection Type	Analyzed Intersections	Rank 5 Identified Intersection	Rank 5 Intersections being Addressed	Rank 5 Intersections to be Addressed
Unsignalized Intersections	673	45	41	4
Signalized Intersections	203	20	17	3
Roundabouts Intersections	16	2	2	0
Total	892	67	60	7

Countywide Evaluation Intersection Improvement Program (IIP)



Next Steps

- Incorporate additional evaluation into any future updates of the Intersection Improvement Program
 - Crash rates analysis, average crash severity, and pedestrian and bicycle safety evaluation
- Annual initiation of needed warrant analysis and signal justification reports for next tier of high priority intersections.



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Questions?